

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13126.

Date of writing Report 30th December, 47.

When handed in at Local Office 6th January, 48.

Received at London Office 8 JAN 1948

Port of MANCHESTER.

No. in Survey held at MANCHESTER.

Date, First Survey 1st October, 1947. Last Survey 12th December, 47.

Number of Visits 3.

Single
on the Twin
Triple
Quadruple
Screw vessel.Tons
Gross
Net

Built at Ardrossan. By whom built Ardrossan Dockyard.

Yard No. 404. When built 1947.

Owners

Port belonging to

Oil Engines made at Patricroft. By whom made L. Gardner & Sons.

Engine

No. 73102.

When made 1947.

Generators made at Liverpool. By whom made Campbell & Isherwood Ltd.

Generator

No. 36107.

When made 1947.

No. of Sets 1. Engine Brake Horse Power 20. M.N. as per Rule 5.

Total Capacity of Generators 10. Kilowatts.

Is Set intended for essential services.

OIL ENGINES, &c.—Type of Engines Vertical Airless Injection Heavy Oil, 4 stroke cycle 4. Single or double acting Single.

Maximum pressure in cylinders 900 lbs per sq inch.

Diameter of cylinders 4 1/2"

Length of stroke 6"

No. of cylinders 2.

No. of cranks 2.

Mean indicated pressure 120 lbs per sq. in.

Firing order in cylinders 2 - 1.

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4.13/16".

Is there a bearing between each crank Yes.

Moment of inertia of flywheel (LB/FT²) 345.

Revolutions per minute 1000.

Flywheel dia 25.3/4".

Weight 497 lbs.

Means of ignition Compression.

Kind of fuel used Diesel Oil.

Crank Shaft, dia. of journals as per Rule Approved.

Crank pin dia. 2.7/8".

Mid. length breadth 4.5/16".

Thickness parallel to axis

as fitted 3.1/4".

Crank Webs (With 1 1/2" Central Hole) (with 1 1/2" Central Hole).

Mid. length thickness 1.1/32" shrunk

Thickness round eye-hole

Flywheel Shaft, diameter as per Rule

Intermediate Shafts, diameter as per Rule

General armature, moment of inertia (LB/FT²) 9.55.

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The foregoing is a correct description,
For and on behalf of
L. GARDNER & SONS LTD.,

R E Jones Manufacturer.



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Lloyd's Register
Foundation

002846-002852-0171

Dates of Survey while building { During progress of work in shops - - 1947. Oct. 1, 2. Dec. 12.
During erection on board vessel - -
Total No. of visits

Dates of Examination of principal parts - Cylinders 2.10.47. Covers 2.10.47. Pistons 1.10.47. Piston rods -
Connecting rods 1.10.47. Crank ~~and~~ ~~connecting~~ shafts 1.10.47. Intermediate shafts -

Crank shaft { Material O.H. Steel. Tensile strength 45.2 Tons per sq. inch.
Elongation 27% Identification Marks Lloyd's 38562, 27.9.46. R.C.C.

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case No. If so, state name of vessel

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) This engine has been constructed under special survey of tested materials in accordance with the Secretary's letters, approved plans and Requirement of the Rules. Materials and workmanship are good, and the engine was found to be satisfactory when tested in the shop under full load conditions.

The engine, in my opinion, is suitable for fitting on board a vessel to be classed with this Society.

Particulars of crankshaft will be found in Manchester Certificate No. C.5307 dated 3rd October, 1946.

One copy of Generator Certificate attached herewith.

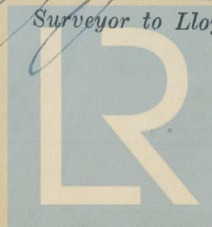
The amount of Fee ... £ 4 : 0 : 0. When applied for 6.1.47 19
Travelling Expenses (if any) £ : : When received 19

Committee's Minute

Assigned

GLASGOW 29 JUN 1948

R. J. Gordon
Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation